

EXHIBIT 28

**IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION**

**JAPAN DISPLAY INC. and PANASONIC
LIQUID CRYSTAL DISPLAY CO. LTD.**

Plaintiffs,

V.

**TIANMA MICROELECTRONICS CO.
LTD.**

Defendant

JAPAN DISPLAY INC.

V.

**TIANMA MICROELECTRONICS CO.
LTD.**

Defendant.

JAPAN DISPLAY INC.,

V.

**TIANMA MICROELECTRONICS CO.
LTD.**

Defendant.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034

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JURY TRIAL DEMANDED

C.A. NO. 2:20-cv-00284-JRG

JURY TRIAL DEMANDED

C.A. NO. 2:20-cv-00285-JRG

JURY TRIAL DEMANDED

**PLAINTIFFS' DISCLOSURE OF
ASSERTED CLAIMS AND INFRINGEMENT CONTENTIONS**

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1. Claims 1, 3, 5, 6, and 8 of U.S. Patent No. 7,636,142 (“the ’142 patent”). *See also* Exhibits M1 through M6.
2. Claims 1-4 of U.S. Patent No. 7,385,665 (“the ’665 patent”). *See also* Exhibits N1 through N8.
3. Claims 1-4, 6-12, and 14-16 of U.S. Patent No. 9,939,698 (“the ’698 patent”). *See also* Exhibits O1 through O6.

B. Separately for each asserted claim, each accused apparatus, product, device, process, method, act, or other instrumentality (“Accused Instrumentality”) of each opposing party of which the party is aware. This identification shall be as specific as possible. Each product, device, and apparatus must be identified by name or model number, if known. Each method or process must be identified by name, if known, or by any product, device, or apparatus which, when used, allegedly results in the practice of the claimed method or process;

The Asserted Patents are directed to improvements in liquid crystal displays (“LCDs”) incorporating thin film transistor (“TFT”) technologies (“TFT LCDs”). Based upon a diligent investigation of information reasonably available to Plaintiffs at this time, Plaintiffs contend that Defendant makes, has made, uses, offers for sale, sells, and/or imports thousands of unique models of TFT LCDs that potentially infringe the Asserted Patents, but that a full accounting of all potentially infringing models of TFT LCDs is exclusively within Defendant’s knowledge. Further, it is impossible for Plaintiffs to determine infringement from publicly available documentation regarding Defendant’s TFT LCD products without purchasing each product and engaging in time-consuming and resource-intensive reverse engineering of each product. It is neither possible nor reasonably practical to identify each and every infringing product at this time. For instance, in most cases infringing products were incorporated into other products and branded and sold under the trade names of various third-party companies, making it impractical to identify all of them. Additionally, Defendant is continually developing and selling new models and will undoubtedly introduce additional models during the course of this case. This information is readily available

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to Defendant, who has access to the design details and manufacturing specifications of Defendant's TFT LCD products. Therefore, the full scope of Defendant's infringement is not publicly available to Plaintiffs, who do not have unlimited time or resources. *See, e.g., MOSAID Techs. Inc. v. Micron Tech., Inc.*, No. 2:06-CV-302 (DF), 2008 WL 11344767, at *2 (E.D. Tex. Jan. 29, 2008) (holding that "the cumulative authority in this district" is that when "there is a lack of public information" a plaintiff need not "perform reverse engineering on every accused product[] to satisfy P.R. 3-1.').

Even so, Plaintiffs have undertaken a reasonable investigation of publicly available information, including time-consuming and resource-intensive reverse engineering efforts, and have identified the following of Defendant's TFT LCD products that practice the Asserted Claims and are representative of Defendant's broader infringement (the "Representative Products"):

[1] TL062FVMC70;

[2] TL079QDXP02;

[3] TL051VVXS09;

[4] TL063FVMC80;

[5] TL063FVMCA1;

[6] NL1294A5ANA0125439391221;

[7] TM062JDSC03; and

[8] TM070RDHP03.

Appendix 1 provides a chart specifically identifying which of the claims are asserted against each of the Representative Products.

Plaintiffs accuse the Representative Products as well as all other reasonably similar products that Defendant has made, had made, used, offered for sale, sold, and/or imported since

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August 31, 2014 (the “Accused Products”). Plaintiffs provide the following categorical descriptions of the Accused Products.

Representative Products [1] through [6] utilize a low-temperature polycrystalline silicon (“LTPS”) process, a technology that was pioneered by JDI and that allows TFT LCD panels to achieve a higher resolution while minimizing power consumption, and implement in-plane switching (“IPS”) type technology. As described in more detail below, Representative Products [1] through [6] are specifically representative of each of Defendant’s modern LTPS TFT LCD products that implement IPS-type technology (the “LTPS IPS Products”). Appendix 2 provides a list of all such LTPS IPS Products currently known to Plaintiffs. As further described below with respect to certain claims, Representative Products [1] through [6] are also specifically representative of each of Defendant’s modern LTPS TFT LCD products that implement non-IPS-type technology (the “LTPS non-IPS Products”). Appendix 3 provides a list of all such LTPS non-IPS Products currently known to Plaintiffs.

Representative Products [7] and [8] utilize an amorphous silicon (“a-Si”) process and implement IPS-type technology. As described in more detail below, Representative Products [7] and [8] are specifically representative of each of Defendant’s modern a-Si TFT LCD products that implement IPS-type technology (the “a-Si IPS Products”). Appendix 4 provides a list of all such a-Si IPS Products currently known to Plaintiffs. As further described below with respect to certain claims, Representative Products [7] and [8] are also specifically representative of each of Defendant’s modern a-Si TFT LCD products that implement non-IPS-type technology (the “a-Si non-IPS Products”). Appendix 5 provides a list of all such a-Si non-IPS Products currently known to Plaintiffs.

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The “Accused Products” include the Representative Products, LTPS IPS Products, LTPS non-IPS Products, a-Si IPS Products, and a-Si non-IPS Products, as well as all other reasonably similar products, that Defendant has made, had made, used, offered for sale, sold, and/or imported since August 31, 2014. All Accused Products currently known to Plaintiffs are listed in Appendices 2-5. These lists have been created based upon publicly available information. However, it is neither possible nor reasonably practical to identify each and every infringing product at this time. For instance, in most cases infringing products were incorporated into other products and branded and sold under the trade names of various third-party companies, making it impractical to identify all of them. Additionally, Defendant is continually developing and selling new models and will undoubtedly introduce additional models during the course of this case. As previously noted, the complete identification of Defendant’s infringing TFT LCD products is known exclusively to Defendant and is not publicly available to Plaintiffs through a reasonable and diligent investigation. Therefore, Plaintiffs intend and specifically reserve the right to promptly supplement and/or amend these Infringement Contentions to more specifically identify additional Accused Products once Defendant has provided discovery regarding the identity of all LTPS IPS Products, LTPS non-IPS Products, a-Si IPS Products, and a-Si non-IPS Products that Defendant has made, had made, used, offered for sale, sold, and/or imported since August 31, 2014 (“Accused Product Discovery”). *See, e.g., Honeywell Int’l Inc. v. Acer Am. Corp.*, 655 F. Supp. 2d 650, 657-58 (E.D. Tex. 2009) (plaintiff is entitled to discovery regarding products that “likely operate in a manner reasonably similar to the infringement theory contained in its [Preliminary Infringement Contentions]” when plaintiff undertook a diligent investigation and the discovery sought was not publicly available). Plaintiffs further intend and specifically reserve the right to promptly supplement and/or amend these Infringement Contentions to remove products that are

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shown through discovery not to have been made, used, offered for sale, sold, and/or imported in or into the United States since August 31, 2014.

Plaintiffs do not contend that each Representative Product practices each of the Asserted Claims. However, Plaintiffs contend that certain subsets of the Representative Products share the same basic technology and incorporate the same relevant features embodying specific subsets of the Asserted Claims in the exact same fashion, such that there is no material difference between them affecting Plaintiffs' infringement theories for those claims, and that those subsets of Representative Products are therefore representative of additional categories of Defendant's other TFT LCDs that share that same basic technology and incorporate those same relevant features ("Representative Categories").

It is impossible for Plaintiffs to fully determine from publicly available documentation regarding Defendant's TFT LCD products which of the Accused Products belong in each Representative Category without purchasing each Accused Product and engaging in time-consuming and resource-intensive reverse engineering of each product. This information is readily available to Defendant, who has access to the design details and manufacturing specifications of Defendant's TFT LCD products. Therefore, the full scope of each Representative Category is not publicly available to Plaintiffs, who do not have unlimited time or resources. Plaintiffs intend and specifically reserve the right to promptly supplement and/or amend these Infringement Contentions to specifically identify which Accused Products belong in each Representative Category once Defendant has provided technical discovery regarding the design, structure, operation, and functionality of all LTPS IPS Products, LTPS non-IPS Products, a-Si IPS Products, and a-Si non-IPS Products that Defendant has made, had made, used, offered for sale, sold, and/or imported since August 31, 2014 ("Technical Discovery"). Plaintiffs expect the Technical

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Discovery to include at least (1) documents sufficient to show the structure, manufacture, and operation of each Accused Product (*e.g.*, operation manuals, product literature, schematics, and specifications); (2) files or documents for each Accused Product containing a graphical representation of the integrated circuit that shows the connections between the various components of the circuit, including complete hierarchical printouts (*e.g.*, in PDF format) of schematic and logical netlist views that are used for abstract level simulation; (3) files or documents for each Accused Product that show the physical arrangement of the components of an integrated circuit, also called the circuit layout which are used by a foundry to fabricate an integrated circuit (*e.g.*, GDS (Graphic Design/Data/Database System), GDSII stream format, DEF (Design Exchange Format), and LEF (Library Exchange Format) files), including the related layer definition files; (4) files or documents that show the fabrication process flow referring or relating to any Accused Product, including the order and relevant specifications of all processing steps (*e.g.*, the process “recipe”), the full complement of design rules for said process, physical layer and mask information, any process design kit (“PDK”) deliverables with the associated documentation, and any standard operating procedure (“SOP”) deliverables; and (5) documents associated with each Accused Product. These types of files are often treated as computer source code, and, similar to computer source code, the Technical Discovery is exclusively within Defendant’s control, cannot be reverse engineered without unduly and burdensome investments in time and money, and is critically relevant to the question of infringement. Thus, Plaintiffs contend that this situation is akin to that included in Section 3(a)(i) of the Court’s model Discovery Order, which allows a plaintiff to defer identification under P.R. 3-1 of claim elements that are implemented by software until 30 days after source code for the accused products is produced by the defendant.

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A chart detailing the Representative Products comprising the Representative Categories and the claims asserted against each Representative Category is presented in Appendix 6, and a detailed technical definition of each Representative Category on a per-Accused Patent basis is provided in Appendix 7.

C. A chart identifying specifically where each element of each asserted claim is found within each Accused Instrumentality, including for each element that such party contends is governed by 35 U.S.C. § 112(¶ 6), the identity of the structure(s), act(s), or material(s) in the Accused Instrumentality that performs the claimed function;

Based upon information reasonably available to Plaintiffs at this time, including time-consuming and resource-intensive reverse engineering efforts, Plaintiffs provide the below claim charts for each of the Representative Products. Each of the charts, identified below as appropriate, serve as exemplars for specific Representative Categories with respect to specific claims because there are no material differences between the Representative Products and the Representative Categories that would affect Plaintiffs' infringement theories, such that separate charts would be the same for the Representative Categories in all relevant respects. *See Eolas Techs. Inc. v. Amazon.com, Inc.*, No. 6:15-CV-01038, 2016 WL 7666160, at *3 (E.D. Tex. Dec. 5, 2016) (“[T]his Court has consistently found that multiple instrumentalities can apply to the same chart where separate charts would be identical for each instrumentality.”); *see also Rapid Completions LLC v. Baker Hughes Inc.*, 6:15-CV-724, 2016 WL 3407688, at *7 (E.D. Tex. June 21, 2016) (“[A] plaintiff may provide an exemplar chart, which encompasses multiple products, if that chart would be representative of each of those products.”).

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1. The elements of the Asserted Claims of the '119 patent are found within the Representative Products as identified in the charts contained in Exhibits A1 through A6:

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Dated: January 6, 2021

Respectfully submitted,

/s/ Eric J. Klein

Eric J. Klein
Lead Attorney
Texas State Bar No. 24041258
Jeffrey R. Swigart
Texas Bar No. 24102553
VINSON & ELKINS L.L.P.
2001 Ross Avenue, Suite 3900
Dallas, TX 75201
Telephone: (210) 220-7700
Facsimile: (210) 220-7716
Email: eklein@velaw.com
Email: jswigart@velaw.com

Hilary L. Preston
Texas State Bar No. 24062946
Erik Shallman
Texas State Bar No. 24113474
Matthew J. Melancon
Texas State Bar No. 24109544
VINSON & ELKINS L.L.P.
2801 Via Fortuna, Suite 100
Austin, TX 78746
Telephone: (512) 542-8400
Facsimile: (512) 542-8612
Email: hpreston@velaw.com
Email: eshallman@velaw.com
Email: mmelancon@velaw.com

Abigail Lubow
California State Bar No. 314396
VINSON & ELKINS L.L.P.
555 Mission Street, Suite 2000
San Francisco, CA 94105
Telephone: (415) 979-6963
Facsimile: (415) 358-5770
Email: alubow@velaw.com

**COUNSEL FOR PLAINTIFFS JAPAN
DISPLAY INC. and PANASONIC LIQUID
CRYSTAL DISPLAY CO., LTD.**

CERTIFICATE OF SERVICE

I hereby certify that on January 6, 2021, a true and correct copy of the foregoing document was served on all counsel for Defendant via electronic mail.

/s/ Eric J. Klein
Eric J. Klein

APPENDIX 2**List of LTPS IPS Products**

The below-identified products include all of Defendant's LTPS IPS Products of which Plaintiffs are currently aware following a diligent and reasonable investigation of publicly available information. Plaintiffs intend and specifically reserve the right to promptly supplement and/or amend this list to include additional LTPS IPS Products once Defendant has provided the Accused Product Discovery.¹

NL1294A5ANA0125439391221	TL055VDMP01	TL063FVMC51
TL045JDXP01	TL055VDXC01	TL063FVMC51-00
TL045JYXP02	TL055VDXP01	TL063FVMC80
TL047JDXP01	TL055VDXP31	TL063FVMC80-00
TL047JYXP01-00	TL055VDXP34	TL063FVMCA1
TL049JDXP01	TL055VDXP34-00	TL063FVMCA1-00
TL049JDXP02	TL055VDXP34-01	TL063FVMCA1-03
TL049JDXP03	TL055VDXP43	TL063FVMCA1-03_TDDI
TL050JDXP01	TL055VDXP43-00	TL063FVMCA1-04
TL050JDXP03-00	TL055VGXP01	TL063FYMC01
TL050JDXP17	TL055VVXG31	TL063FYMC11
TL050JGXP01	TL055VVXP02	TL063FYMC31
TL050JVXP01-00	TL055VYXC01	TL063FYMC41
TL050JVXP04-00	TL055VYXP02	TL063FYMCA1
TL050JYXP01-00	TL055VYXP14	TL064VDXP03
TL050JYXP02-00	TL057VDXP01	TL064VDXP03-00
TL050VDXP01	TL059FVMP06-00	TL065FYMC01
TL050VDXP03	TL060JDXP01	TL065FYMM02
TL050VDXP08	TL060JDXP01-00	TL065FYMM10
TL050VGXP01	TL060JYXP02	TL065FYXS01
TL050VYXP02	TL060VDXP01	TL065FYXS30
TL050VYXP03	TL060VDXP01-01	TL079QDXP02
TL051VVXS09	TL060VYXP02	TL089QDXP01
TL052VDXP02	TL061FYMF01	TL101ADXP01
TL052VYXP11	TL062FVMC70	TL139VDXP01-01
TL055BDXP02	TL062FYXC01	TM062FYMC01

¹ This list is based on Plaintiffs' reasonable and diligent investigation of publicly available information to date. Plaintiffs reserve the right to supplement and/or amend these Infringement Contentions to recategorize any products if necessary as discovery commences.

Infringement Contentions

TL055BDXP03	TL063FVMC31	
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In addition to the above-identified models, Plaintiffs also identify all other substantially similar models of LTPS IPS Products that are made, used, sold, offered for sale, and/or imported into the United States by Defendant or Defendant's subsidiaries, affiliates, or down-stream customers/distributors since August 31, 2014 as explained in Plaintiffs' Detailed Technical Description of Representative Categories. See Appendix 7 ('119, '687, '132, '299, '859, '034, '989, '429, '654, '409, '288, '142, '665, '698 patents).

APPENDIX 3**List of LTPS non-IPS Products**

The below-identified products include all of Defendant's LTPS non-IPS Products of which Plaintiffs are currently aware following a diligent and reasonable investigation of publicly available information. Plaintiffs intend and specifically reserve the right to promptly supplement and/or amend this list to include additional LTPS non-IPS Products once Defendant has provided the Accused Product Discovery.²

NL4864HL11-01A	NL6448HL11-02	NL9654HL06-01J
NL4864HL11-01B	NL8048HL11-01A	
NL4864HL11-02A	NL8048HL11-01B	

In addition to the above-identified models, Plaintiffs also identify all other substantially similar models of LTPS non-IPS Products that are made, used, sold, offered for sale, and/or imported into the United States by Defendant or Defendant's subsidiaries, affiliates, or downstream customers/distributors since August 31, 2014 as explained in Plaintiffs' Detailed Technical Description of Representative Categories. *See* Appendix 7 ('299 & '665 patents).

² This list is based on Plaintiffs' reasonable and diligent investigation of publicly available information to date. Plaintiffs reserve the right to supplement and/or amend these Infringement Contentions to recategorize any products if necessary as discovery commences.

APPENDIX 4**List of a-Si IPS Products**

The below-identified products include all of Defendant's a-Si IPS Products of which Plaintiffs are currently aware following a diligent and reasonable investigation of publicly available information. Plaintiffs intend and specifically reserve the right to promptly supplement and/or amend this list to include additional a-Si IPS Products once Defendant has provided the Accused Product Discovery.³

NL10260BC19-01	NL6448BC26-08D	TM050JYHP02
NL10260BC19-01D	NL6448BC33-53	TM050JYHP02-00
NL10276AC28-02	NL6448BC33-74	TM050JYHP03
NL10276AC28-02A	NL6448BC33-74E	TM050JYHP04
NL10276AC28-02F	NL6448BC33-74H	TM050JYHP05
NL10276AC28-02L	NL8048BC19-11D	TM050JYHP06
NL10276AC30-02	NL8048BC21-03F	TM050JYHS13
NL10276AC30-48D	NL8048BC24-04	TM050JYSP01
NL10276BC16-01	NL8048BC24-09	TM050RDZGP08
NL10276BC16-04	NL8048BC24-09BD	TM050XDHP01
NL10276BC16-04D	NL8048BC24-09D	TM050XDHP05
NL10276BC16-06	NL8048BC24-09KD	TM050XYHP01
NL10276BC16-06D	NL8048BC24-14NH	TM050XYHP02-00
NL10276BC16-06KD	NL8060BC26-27	TM050YDHP02
NL10276BC20-08	NL8060BC26-28	TM050YDHP04
NL10276BC20-11	NL8060BC26-28D	TM050YDSP01
NL10276BC20-47	NL8060BC26-28N	TM050YDZP01
NL10276BC30-17	NL8060BC31-20	TM050YYSP02-00
NL10276BC30-19	NL8840AC29-01	TM050YYSP03-00
NL10276BC30-38B	TE133CFSP02	TM050YYSP05
NL10276BC30-39	TE141XDHP01	TM052JSP01
NL128102AC28-01	TL064FVXK02	TM053JDHP01
NL128102AC28-01F	TM013XDHG30	TM053JVSS01
NL128102AC28-04	TM014ZYHP01	TM053JYHP01
NL128102AC28-07	TM016XDHC01	TM055JDHP71
NL128102AC29-17	TM016XDHC01-00	TM055JDWP37

³ This list is based on Plaintiffs' reasonable and diligent investigation of publicly available information to date. Plaintiffs reserve the right to supplement and/or amend these Infringement Contentions to recategorize any products if necessary as discovery commences.

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NL128102AC29-17G	TM016XYHP01	TM055JVZG02
NL128102AC29-20	TM020KBZP01	TM055JVZG08
NL128102AC31-01A	TM024HDHP49	TM055JVZG08-00
NL128102AC31-01E	TM024HDHP49-00	TM055JYHP01
NL128102AC31-02	TM024HDSP01	TM055JYHP03
NL128102AC31-02A	TM030XDHG30	TM055JYSP01
NL128102AC31-02E	TM034XVZP01	TM055JYSP02
NL128102BC29-01	TM035HDHP13	TM055JYSP03
NL128102BC29-01B	TM035HDZP04	TM055JYSP08
NL128102BC29-01C	TM035HDZP08	TM055XDHP02
NL128102BC29-10	TM035PDZ01	TM055XDHP10
NL128102BC29-10C	TM035PDZ02	TM055XYSP02-00
NL128102BC31-02	TM035PDZ16	TM055XYSP03-00
NL128102BM29-05	TM035PYSP01	TM057JDHP01
NL128102BM29-05A	TM035XYHP01	TM057JDHP04
NL128102BM29-08	TM037YDHP02	TM057JDHP04-30
NL12876AC18-03	TM037YYHP01	TM057JYHP02-00
NL12876AC18-03AA	TM040JYHP01	TM057JYHP03
NL12876AC18-03BD	TM040XYHP01	TM057JYSS01
NL12876AC18-03D	TM040YDHG30	TM059JVHC04
NL12876AC18-03KD	TM040YDHG32	TM060JDHP03
NL12876AC18-07DC	TM040YDHG32-00	TM060JDSP01-00
NL12876AC39-01	TM040YDHG37	TM060JDWP05
NL12876BC26-22	TM040YDHG41	TM060JDZG01
NL12876BC26-22D	TM040YDHP01	TM060JVZG01
NL12876BC26-22E	TM040YDHP03	TM060JVZG02
NL12876BC26-25	TM040YDHP05	TM060JYHC01
NL12876BC26-25A	TM040YDHP06	TM060JYSP01
NL12876BC26-25B	TM040YDHP06-V1.0	TM060JYSP01-00
NL12876BC26-28	TM040YGH01	TM060JYSP02
NL12876BC26-32D	TM040YVHP12	TM060XYSP01
NL12876BC26-33NA	TM040YVZG31	TM061YYSX01
NL12880AC16-01D	TM040YYHP02	TM062JDSC03
NL12880AC20-20D	TM040YYHP02-00	TM062JYSC01
NL12880BC16-02F	TM040YYHP02-28	TM062JYSC09
NL12880BC20-02D	TM040YYSP02	TM064JYHM01
NL12880BC20-05	TM040YYSP02-00	TM065JVSC03
NL12880BC20-05BA	TM040YYSP03	TM065JYSP01
NL12880BC20-05BD	TM040YYSP04	TM065JYSP02
NL12880BC20-05BD-C1	TM040YYSPA1	TM065JYSP03
NL12880BC20-05D	TM040YYSPA3	TM065QFHP01

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NL12880BC20-05KD	TM041XDHC02	TM068XYSP01
NL12880BC20-12NA	TM042JVHS02	TM070JDHG30
NL12880BC20-13ND	TM042JYHS03	TM070JDHG30-00
NL12880BC20-32F	TM043NDSP01	TM070JDHG30-01
NL12880BC20-39NA	TM043XDHP01	TM070JDHG30-DEMO
NL12880BC20-40NA	TM043XYSP01	TM070JDHG33
NL12880BC20-40NA-NRE	TM043YDHG30	TM070JDHG33-00
NL12880BC20-XXNA/K0	TM043YDHG30-00	TM070JDHG34
NL160120AC26-01A	TM043YDHG30-40	TM070JFSP01
NL160120AC27-01	TM043YDHG30-41	TM070JVHG30
NL160120AC27-05	TM043YDHP01	TM070JVHG33
NL160120AC27-20	TM043YDHP02	TM070JVHG33-00
NL160120AC27-22B	TM043YDHP05	TM070JVHG33-01
NL160120AC27-32	TM043YVHG30	TM070RDHG70
NL160120AC27-32B	TM043YVHG31	TM070RDHG71
NL160120AC27-37	TM043YVHG32	TM070RDHP03
NL160120AC27-40	TM043YVHG35	TM070RDHP10
NL160120AM27-06	TM043YVHG35-00	TM070RDHP10-00
NL160120AM27-06A	TM043YYSP02	TM070RDSG12
NL160120AM27-13A	TM045XDHP01	TM070RFBP01
NL160120AM27-33A	TM045XDHP02	TM078XYHP10
NL160120BC27-02	TM045XDHP03	TM080JDHP95
NL160120BC27-10	TM045XDHP04	TM080JDHP98
NL160120BC27-14	TM045XDHP05	TM080JDKP96
NL160120BC27-19	TM045XDHP06	TM080JDKP99
NL160120BC27-19E	TM045XDHP10	TM080JDSG01
NL160120BM27-03	TM045XDHP12	TM080RBHG30
NL160120BM27-03A	TM045XDZP08	TM080RDHG30
NL160120BM27-07	TM045XDZP10	TM080RDHP07
NL160120BM27-07A	TM045XYHP01	TM080TDGP01
NL192108AC10-01D	TM045XYHP01-00	TM080VDSP01
NL192108AC13-02D	TM045XYHP10	TM080VDSP03
NL192108AC18-01D	TM045YDHP01	TM089CFSP01
NL192108AC18-01ND-C1	TM045YDZP18	TM090JDKP01
NL192108AC18-02D	TM045YDZP20	TM090XYHP01
NL192108AC21-01	TM045YDZP23	TM090XYHP02
NL192108AC21-04	TM045YDZP23-00	TM092XYGJ01-02
NL192108BC18-06F	TM045YYHP01-00	TM097QDSP01
NL192108JC18-03ND	TM045YYHP04	TM101JDHG30
NL192108JC18-16DD	TM045YYHP08	TM101JDHG30-00
NL192120AC25-02	TM045YYSP02	TM101JDHG32

Infringement Contentions

NL192120BC25-03	TM045YYSP03	TM101JDHG33
NL204153AC21-03	TM045YYSP04	TM101JDHG38
NL204153AC21-09	TM046JDHG01	TM101JDHG38-00
NL204153AC21-17	TM046JDHP01	TM101JDHP01
NL204153AC21-22	TM046JDHP01-00	TM101JDHP01-00
NL204153AC21-25	TM046JDHP01-30	TM101JDHP03
NL204153AM21-07A	TM046XDH03	TM101JDHP03-00
NL204153AM21-18A	TM046XDHP01	TM101JVHG30
NL204153AM21-18E	TM046XDHP02	TM101JVHG30-00
NL204153AM21-24A	TM046XYHP01	TM101JVHG30-05
NL204153BC21-02	TM046XYHP02	TM101JVHG32
NL204153BC21-09	TM046XYHP05	TM101JVHG32-00
NL204153BM21-01	TM047JDHP01	TM101JVHG32-01
NL204153BM21-01A	TM047JVHN05	TM101JVHP01
NL204153BM21-02	TM047JVHN06	TM101JVHP01-00
NL204153BM21-04	TM047JYHN01	TM101JVHP01-01
NL204153BM21-04A	TM047JYHP02	TM101VDSP01
NL204153BM21-05	TM047XDHP01	TM103XDGP01
NL204153BM21-05A	TM047XDHP02	TM103XDHP01
NL256204AC16-01	TM047XDHP04	TM103XDHP95
NL256204AM15-01	TM047XDZP01	TM103XDKP05
NL256204AM15-01A	TM047XDZP02	TM103XDKP06
NL256204AM15-02A	TM047XDZP15	TM103XDKP07
NL256204AM15-03A	TM047XYHP01	TM104TDGP10
NL256204AM15-04A	TM047XYHP02	TM104TDGP10-00
NL256204AM16-02A	TM047XYHP10	TM104TDHP01
NL280210AM15-04A	TM047XYSP10	TM104TDHP02
NL328204AC19-01	TM049JYSP01	TM116VDSP01
NL384216AC07-02	TM049JYSP02	TM116VDSP01-00
NL384216AC07-02 ES1	TM050JDHC02	TM116VDSP02
NL4823HC37-03	TM050JDHG04	TM120GDSP01
NL6448AC33-01	TM050JDHG31	TM121JDGP30
NL6448AC33-02	TM050JDHG33	TM121JDSG10
NL6448AC33-03	TM050JDHG33-00	TM123XDHP01
NL6448AC33-05	TM050JDHN08	TM123XDHP90
NL6448AC33-06	TM050JDHN19-02	TM123XDKP11
NL6448AC33-09	TM050JDHP01	TM133CFSP02
NL6448AC33-17	TM050JDHP02	TM133CFSP03
NL6448AC33-18B	TM050JDHP07	TM133CFSP03-00
NL6448AC33-18J	TM050JDHP08	TM156VDHP01
NL6448AC33-18K	TM050JDSP02	TM156VDSG16

Infringement Contentions

NL6448AC33-21	TM050JDSP06	TM156VDSEG17
NL6448AC33-25	TM050JDZG41	TM185VDSEG06
NL6448AC33-30	TM050JVHS10-02	TM185VDSEG07
NL6448AC33-31	TM050JVZG28	TM240320A7NFWVGWC2-1
NL6448AC33-AOD	TM050JYHP01	

In addition to the above-identified models, Plaintiffs also identify all other substantially similar models of a-Si IPS Products that are made, used, sold, offered for sale, and/or imported into the United States by Defendant or Defendant's subsidiaries, affiliates, or down-stream customers/distributors since August 31, 2014, as explained in Plaintiffs' Detailed Technical Description of Representative Categories. *See* Appendix 7 ('299, '118, '409, '665 patents).

APPENDIX 5**List of a-Si non-IPS Products**

The below-identified products include all of Defendant's a-Si non-IPS Products of which Plaintiffs are currently aware following a diligent and reasonable investigation of publicly available information. Plaintiffs intend and specifically reserve the right to promptly supplement and/or amend this list to include additional a-Si non-IPS Products once Defendant has provided the Accused Product Discovery.²

1540008031	TM020HBH01	TM050RDH13
LTD154EZ1D	TM020HBH01-V10	TM050RDZG03
NL10276AC20-01	TM020HBH03	TM050RDZG03-00
NL10276AC20-02	TM020HBH03-V2	TM050RFH01
NL10276AC20-04	TM020HDH01	TM050RFH02
NL10276AC24-04	TM020HDH01-00	TM050RFH03
NL10276AC24-05	TM020HDH01-V1.1	TM050RVHG01
NL10276AC28-01A	TM020HDH01-V10	TM050RVHG01-00
NL10276AC28-01F	TM020HDH03	TM050RVHG01-40
NL10276AC28-01L	TM020HDH09	TM050RVHG02
NL10276AC28-05	TM020HDH17	TM050RVHG02-40
NL10276AC28-05R	TM020HDH18	TM050RVHG02-41
NL10276AC30-03L	TM020HDZ00	TM050RYH01
NL10276AC30-04L	TM020HDZ02	TM050RYH31
NL10276AC30-04R	TM020HDZ05	TM050RYH32
NL10276AC30-04U	TM020HYH01	TM050RYH51
NL10276AC30-04W	TM020HYH06	TM050RYH52
NL10276AC30-05	TM020HYH08	TM050XDH02
NL10276AC30-06	TM020HYH31	TM050XDHP07
NL10276AC30-07	TM020HYH32	TM050XDSP55
NL10276AC30-09	TM020HYH33	TM050XDSP56
NL10276AC30-42C	TM020HYH34	TM050XDSP59
NL10276AC30-42D	TM020XDZ00	TM050XDWA01
NL10276AC30-45BD	TM022GBH01	TM050XDZP03
NL10276AC30-45D	TM022GBH09	TM050XDZP07
NL10276AC30-45KD	TM022GBH17	TM050XYS01

² This list is based on Plaintiffs' reasonable and diligent investigation of publicly available information to date. Plaintiffs reserve the right to supplement and/or amend these Infringement Contentions to recategorize any products if necessary as discovery commences.

Infringement Contentions

NL10276AC30-52C	TM022GBH17-V1	TM050XYS21-02
NL10276AC30-53D	TM022GBH22	TM050XYSA01
NL10276AC30-58F	TM022GDH05	TM050XYSA02
NL10276BC12-01	TM022GDH06	TM050XYSP02
NL10276BC12-02	TM022GDH08	TM050YDWA01
NL10276BC13-01	TM022GDH09-00	TM050YYSA01
NL10276BC13-01BD	TM022GDH11	TM050YYSA02
NL10276BC13-01C	TM022GDH14	TM050YYSA07
NL10276BC13-01D	TM022GDH15	TM053XDH01
NL10276BC13-01JA	TM022GDH17	TM053XYH02
NL10276BC13-01KA	TM022GDH18	TM055JDSP02-00
NL10276BC20-04	TM022GDH22	TM055JDSP09
NL10276BC20-04C	TM022GDH42	TM055JDSP11
NL10276BC20-04E	TM022GDZ31	TM055JDSP14
NL10276BC20-05Y	TM022GYH01	TM055JDSP47
NL10276BC20-06Y	TM022GYH10	TM055JVSP40-00
NL10276BC20-07Y	TM022GYH11	TM055JYSP04
NL10276BC20-10	TM022GYH12	TM055JYSP10-02C
NL10276BC20-12	TM022GYH31	TM055XDSP01-00
NL10276BC20-18	TM022GYH32	TM055YDH01
NL10276BC20-18A	TM022GYH33	TM055YDH02
NL10276BC20-18B	TM022GYH34	TM055YYH02
NL10276BC20-18BD	TM022GYS21	TM056KDH01
NL10276BC20-18BH	TM022GYS22	TM056KDH01-V2.2
NL10276BC20-18C	TM022HBH01	TM056KDH02
NL10276BC20-18D	TM022HBH05	TM056KDH02-V1.1
NL10276BC20-18F	TM022HBH08	TM056KYH01
NL10276BC20-18KB	TM022HDH02	TM057JDSS04
NL10276BC20-18KD	TM022HDH04	TM057JYHP01
NL10276BC20-18KE	TM022HDH05	TM057KBH01
NL10276BC20-18KH	TM022HDH07	TM057KBHG01
NL10276BC20-18KH-C1	TM022HDH12	TM057KBHG01-40
NL10276BC20-37	TM022HDH16	TM057KBHG02-40
NL10276BC20-46NH	TM022HDH19	TM057KDH01
NL10276BC20-47KD-C1	TM022HDH20	TM057KDH01-10
NL10276BC24-13	TM022HDH20-V1.1	TM057KDH01-V1
NL10276BC24-13C	TM022HDH26	TM057KDH01-V2
NL10276BC24-14	TM022HDH31	TM057KDH01-V2.0
NL10276BC24-19D	TM022HDHG03	TM057KDH02
NL10276BC24-20	TM022HDHG06	TM057KDH03
NL10276BC24-21	TM022HDHT1	TM057KDH03-V1

Infringement Contentions

NL10276BC24-21BD	TM022HDHT10	TM057KDH03-V1-0
NL10276BC24-21BH	TM022HDHT1-00	TM057KDH04
NL10276BC24-21BH-C1	TM022HDHT1-00-V0	TM057KDH05
NL10276BC24-21F	TM022HDHT1-00-V2	TM057KDHG03
NL10276BC24-21KD	TM022HDHT1-05	TM057KDHG04
NL10276BC24-21KH	TM022HDHT11	TM057KDHG04-00
NL10276BC24-21L	TM022HDHT11-00	TM057KDHG10
NL10276BC24-36KD	TM022HDHT7-05	TM057KDHP1
NL10276BC24-XXBD	TM022HDZT01	TM057KVHG01
NL10276BC24-XXKD	TM022HYH01	TM057KVHG01-40
NL10276BC26-08	TM022HYH06	TM057QDH01
NL10276BC26-11A	TM023KDH01	TM057QDH01-00
NL10276BC26-11C	TM023KDH02	TM057QDH01-41
NL10276BC26-17	TM023KDH03	TM057QDH01-V1.1
NL10276BC28-01	TM023KDH04	TM057QDHG02
NL10276BC28-03	TM023KDH05	TM057QDHG03
NL10276BC28-05D	TM023KDH06	TM057QDHG04
NL10276BC28-11A	TM023KDH07	TM057QDHG08
NL10276BC28-11B	TM023KDH08	TM057QFH01
NL10276BC28-11E	TM023KDH09	TM057QVHG01
NL10276BC28-11F	TM023KDH10	TM057QVZ00
NL10276BC28-11G	TM023KDH12	TM058JFHG01
NL10276BC28-21A	TM023KDH13	TM058JFHG02
NL10276BC28-21E	TM023KDH14	TM059YDH02
NL10276BC28-21F	TM023KDH15	TM059YDH03
NL10276BC28-24C	TM023KDH16	TM059YDH04
NL10276BC28-24F	TM023KDH18	TM059YYH01
NL10276BC28-27E	TM023KDH19	TM059YYH02
NL10276BC30-04	TM023KDH19-V1	TM060JYHS01
NL10276BC30-04D	TM023KDH20	TM060RBH01
NL10276BC30-04F	TM023KDH22	TM060RBH01-V1.0
NL10276BC30-07	TM023KDH23	TM060RBH01-V2.1
NL10276BC30-10	TM023KDH24	TM060RBZ02
NL10276BC30-15	TM023KDH26	TM060RDH01
NL10276BC30-18	TM023KDH28	TM060RDH01-V2.4
NL10276BC30-18C	TM023KDH30	TM060RDH02
NL10276BC30-18L	TM023KDH32	TM060RDH03
NL10276BC30-21A	TM023KDH34	TM060RDH03-V2.1
NL10276BC30-22	TM023KDH36	TM060RDH04
NL10276BC30-22F	TM023KDH42	TM060RDH05
NL10276BC30-24D	TM023KDH45	TM060RDHG03

Infringement Contentions

NL10276BC30-32D	TM023KDH60	TM060RDZ01
NL10276BC30-33	TM023KDZ00	TM060RDZ02
NL10276BC30-33D	TM023KDZ02	TM060RYH01
NL10276BC30-33E	TM023KDZ05	TM060RYH02
NL10276BC30-34BD	TM023KDZ06	TM060SYHE1
NL10276BC30-34D	TM023KDZ32	TM061RFH01
NL10276BC30-34K	TM023KDZ32-10	TM061RYH01
NL10276BC30-34KD	TM023KDZ34	TM062DSC01
NL10276BC30-34R	TM023KYH01	TM062JDSC07
NL10276BC30-42BD	TM023KYH03	TM062RDH02
NL10276KC30-43DD	TM024HBH05	TM062RDH03
NL10276KC30-50DD	TM024HBH22	TM062RDH03-V1.0
NL1216ER26-02	TM024HBH24	TM062RDH03-V2
NL128102AC20-04	TM024HBH29	TM062RDH03-V2.0
NL128102AC20-27	TM024HBH33	TM062RDS01
NL128102AC23-02	TM024HBH36	TM062RDZ04
NL128102AC23-03	TM024HBH39	TM062RDZG10
NL128102AC26-01	TM024HBH39-V1	TM062RYH01
NL128102BC23-02	TM024HBH40	TM062RYH02
NL128102BC23-02A	TM024HBH41	TM064JDSC01
NL128102BC23-03	TM024HBH45	TM065QDHG01-00
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NL128102BC28-04	TM024HDH10	TM065QDHG02-01
NL128102BC28-07	TM024HDH13	TM065QDHG03
NL128102BC28-09	TM024HDH29	TM068DDHG01
NL128102BC28-09S	TM024HDH29-V1	TM068RDS01
NL12876BC15-01	TM024HDH30	TM068RDS02
NL12876BC26-21	TM024HDH36	TM068RDSG03
NL12876BC26-22F	TM024HDH46	TM070DDH01
NL12880AC20-14D	TM024HDH47	TM070DDH01-00-V3
NL12880BC20-07F	TM024HDH49	TM070DDH02
NL12880BC20-25F	TM024HDH49-00	TM070DDH03
NL12889BC20-07KH	TM024HDH49-01	TM070DDH03-V2
NL13676AC25-01D	TM024HDH50	TM070DDH03-V2.0
NL13676AC25-05D	TM024HDH51	TM070DDH04
NL13676BC18-01D	TM024HDH57	TM070DDH05
NL13676BC25-03F	TM024HDH59	TM070DDH06
NL13676BC25-07F	TM024HDH60	TM070DDH07
NL2432DR22-02B	TM024HDH62	TM070DDH08
NL2432DR22-03B	TM024HDH64	TM070DDH09
NL2432DR22-11B	TM024HDH66	TM070DDH09-BLU1-03

Infringement Contentions

NL2432DR22-11N	TM024HDH67	TM070DDH10
NL2432DR22-12B	TM024HDH71	TM070DDH12
NL2432DR22-14B	TM024HDHG04	TM070DDHG03-40
NL2432HC17-01	TM024HDHG20	TM070DDHG21
NL2432HC17-01B	TM024HDHG21	TM070DFH01
NL2432HC17-01H	TM024HDZ13	TM070DSZ00
NL2432HC17-02	TM024HDZ25	TM070DVHG01
NL2432HC17-02A	TM024HDZ47	TM070DVHG01-40
NL2432HC17-02B	TM024HDZ58	TM070DVHG01-41
NL2432HC17-04A	TM024HDZ73	TM070DYH01
NL2432HC17-04B	TM024HDZG99	TM070DYH02
NL2432HC17-05B	TM024HYH01	TM070JDHP01-00
NL2432HC17-07A	TM024HYH03	TM070JDHP03-00
NL2432HC17-07B	TM024HYH08	TM070JDHP08-00
NL2432HC17-09B	TM024HYH09	TM070RBH01
NL2432HC17-10B	TM024HYH61	TM070RBH01-V1.0
NL2432HC22-02B	TM024HYH62	TM070RBH01-V2.2
NL2432HC22-05B	TM024KDZG01	TM070RBH10
NL2432HC22-20	TM025CBH03	TM070RBH10-00
NL2432HC22-22	TM025CDH01	TM070RBH10-20
NL2432HC22-22A	TM025CDH01-V1.4	TM070RBH10-40
NL2432HC22-22B	TM025CDH02	TM070RBH10-41
NL2432HC22-23B	TM025CDH03	TM070RBH10-V1.2
NL2432HC22-25B	TM025ZDHG03	TM070RBH10-V1.4
NL2432HC22-25E	TM025ZDZ01	TM070RBH11
NL2432HC22-30B	TM025ZW01	TM070RBHG04
NL2432HC22-32B	TM026HDH01-03	TM070RBHG04-00
NL2432HC22-36B	TM026HDH02	TM070RBHG04-40
NL2432HC22-37B	TM026HYH01-00	TM070RBHG14-00
NL2432HC22-40A	TM026NDH01	TM070RBZ17
NL2432HC22-40J	TM026NYH01	TM070RBZ18
NL2432HC22-41B	TM027CDH01	TM070RDH01
NL2432HC22-41K	TM027CDH02	TM070RDH01-25
NL2432HC22-42B	TM027CDH04	TM070RDH01-V2.2
NL2432HC22-44B	TM027CDH05	TM070RDH02
NL2432HC22-45A	TM027CDH08	TM070RDH04
NL2432HC22-50A	TM027CDH09	TM070RDH05
NL2432HC22-50B	TM027CDH12	TM070RDH10
NL2432HC22-50J	TM027CDH14	TM070RDH10-00
NL2432HC22-50K	TM027CDH18	TM070RDH10-11
NL2432HC22-YYB	TM027CDH19	TM070RDH10-20

Infringement Contentions

NL256204AC15-02	TM027CDH21	TM070RDH10-40
NL3224AC35-05	TM027CDH22	TM070RDH10-42
NL3224AC35-09	TM027CYH01	TM070RDH10-43
NL3224AC35-10	TM028HBH03	TM070RDH10-47
NL3224AC35-13	TM028HBH14	TM070RDH11
NL3224AC35-20	TM028HBH15	TM070RDH11-00
NL3224AC36-01D	TM028HBH17	TM070RDH11-00-V5
NL3224AC36-01F	TM028HBH21	TM070RDH12
NL3224BC35-01	TM028HBH24	TM070RDH12-V1.0
NL3224BC35-20	TM028HBH26	TM070RDH12-V2
NL3224BC35-20R	TM028HBH31	TM070RDH12-V2.0
NL3224BC35-21	TM028HBHG02	TM070RDH13
NL3224BC35-22	TM028HBHG20	TM070RDH13-40
NL3224CR24-03	TM028HBHG53	TM070RDH13-41
NL3224CR24-04A	TM028HBHG55	TM070RDH15
NL3224CR24-05A	TM028HBHG55-00	TM070RDH16
NL3224ER24-03	TM028HDH01	TM070RDH19
NL4823BC37-05	TM028HDH02	TM070RDH19-V1.3
NL4827HC19-01B	TM028HDH02-V2.1	TM070RDH20
NL4827HC19-02B	TM028HDH11	TM070RDH23
NL4827HC19-05A	TM028HDH15	TM070RDH25
NL4827HC19-05B	TM028HDH16	TM070RDH27
NL4864HC13-01A	TM028HDH20	TM070RDH27-V2.0
NL6440AC30-01	TM028HDH21	TM070RDH28
NL6440AC30-04	TM028HDH22	TM070RDHG11
NL6448AC18-08D	TM028HDH23	TM070RDHG12
NL6448AC18-08F	TM028HDH30	TM070RDHG16
NL6448AC18-11D	TM028HDH31	TM070RDHG23-40
NL6448AC18-12F	TM028HDH36	TM070RDHG24
NL6448AC20-01	TM028HDHG02	TM070RDHG24-00
NL6448AC20-02	TM028HDHG04	TM070RDHG34
NL6448AC26-47D	TM028HDHG20	TM070RDHG34-00
NL6448AC30-01	TM028HDHG20-00	TM070RDHGZ1
NL6448AC30-03	TM028HDHG30	TM070RDSG08
NL6448AC30-07	TM028HDHG59-00	TM070RDZ07
NL6448AC30-09	TM028HDHG59-01	TM070RDZ08
NL6448AC30-11	TM028HDHG75	TM070RDZ12
NL6448AC30-21	TM028HDZ13	TM070RDZG01
NL6448AC32-02	TM028HDZ25	TM070RDZGZ0
NL6448AC32-03	TM028HDZ29	TM070RFH12
NL6448AC33-13	TM028HDZ30	TM070RFH14

Infringement Contentions

NL6448AC33-15	TM028HDZ41	TM070RFH16
NL6448AC33-18	TM028HDZ58	TM070RLZ00
NL6448AC33-18A	TM028HDZG59	TM070RNZ04
NL6448AC33-31D	TM028HH03	TM070RVHG01
NL6448AC33-97D	TM028HYH01	TM070RVHG01-01
NL6448AC33-A0D	TM028HYH05	TM070RVHG01-02
NL6448AC33-A1D	TM028HYH08	TM070RVHG02
NL6448AC63-01	TM028HYH09	TM070RVHG04
NL6448BC18-01	TM028HYH10	TM070RVHG04-00
NL6448BC18-01B	TM028HYH11	TM070RVHG05
NL6448BC18-01F	TM028HYHG20	TM070RVHG05-00
NL6448BC18-03F	TM028HYS01	TM070RVHG50
NL6448BC18-06B	TM028HYS21	TM070RVHG50-00
NL6448BC18-06F	TM028KDHG02	TM070RVZ01
NL6448BC18-07	TM028LBH01	TM070RVZ06
NL6448BC19-01	TM028LDH01	TM070RYH01
NL6448BC20-09Y	TM028LDH01-V1.2	TM070RYH10
NL6448BC20-12Y	TM028LDH02	TM070RYH10-00
NL6448BC20-14	TM028LDH03	TM070RYH11
NL6448BC20-18	TM028LDH05	TM070SDH01
NL6448BC2018D	TM028LDH07	TM070SDH01-V2.1
NL6448BC20-18D	TM028LDZ01	TM070SDH02
NL6448BC20-20	TM028LDZ09	TM070SDH03
NL6448BC20-21	TM028LYH01	TM070SDH04
NL6448BC2021C	TM028LYH02	TM070SDH05
NL6448BC20-21C	TM030CDH08	TM070SDHA0
NL6448BC20-21D	TM030CDH51-00	TM070UDH01
NL6448BC20-30	TM030CFH11	TM070UDH01-V1.4
NL6448BC20-30BD	TM030HH01	TM070UDH02
NL6448BC20-30BH	TM030LBHT1	TM070UDH02-V1.4
NL6448BC20-30C	TM030LDH01	TM070UDH03
NL6448BC20-30D	TM030LDHT1	TM070UDH04
NL6448BC20-30F	TM030LDHT10	TM070UDH05
NL6448BC20-30JF	TM030LDHT1-00	TM070UDH06
NL6448BC20-30KH	TM030LDHT2	TM070UFH01
NL6448BC20-35	TM030PDHP01	TM070UFH02
NL6448BC20-35C	TM030ZDHG01	TM070UFH03
NL6448BC20-35D	TM031HDH01	TM073XDHG01
NL6448BC20-35F	TM031HDZ01	TM080DDHG11
NL6448BC26-01	TM031HYH01	TM080RDHG90
NL6448BC26-01F	TM031HYH02	TM080SDH01

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NL6448BC26-03	TM031HYS01	TM080SDH01-00
NL6448BC26-09	TM031HYS21	TM080SDH01-00-V2
NL6448BC26-09C	TM031HYS22	TM080SDH01-41
NL6448BC26-09D	TM032HYH01	TM080SDH02
NL6448BC26-11	TM032LBH01	TM080SDH02-41
NL6448BC26-15	TM032LBH02	TM080SDH03
NL6448BC26-17	TM032LBH03	TM080SDH04
NL6448BC26-20F	TM032LDH01	TM080SDH06
NL6448BC26-22F	TM032LDH02	TM080SDHG02
NL6448BC26-25	TM032LDH03	TM080SFH01
NL6448BC26-26	TM032LDH03-V2.1	TM080SFH02
NL6448BC26-26C	TM032LDH04	TM080SFH03
NL6448BC26-26D	TM032LDH05	TM080TDH01
NL6448BC26-26F	TM032LDH05-V1.1	TM080TDHG01
NL6448BC26-27	TM032LDH06	TM080TDHG01-40
NL6448BC26-27C	TM032LDH07	TM080TFH01
NL6448BC26-27D	TM032LDH08	TM080TYH01
NL6448BC26-27F	TM032LDH09	TM080XDH02
NL6448BC28-01	TM032LDH10	TM080XFH01
NL6448BC33-13	TM032LDH11	TM080XFH01-00
NL6448BC33-20	TM032LDH12	TM080XFH02
NL6448BC33-21	TM032LDH13	TM080XFH03
NL6448BC33-27	TM032LDH19	TM080XFH04
NL6448BC33-31D	TM032LDH21	TM080XPH01
NL6448BC33-46	TM032LDH22	TM080XSZ00
NL6448BC33-46D	TM032LDH24	TM080XYH01
NL6448BC33-49	TM032LDZ04	TM081JDH02
NL6448BC33-50	TM032LDZ07	TM081JFH01
NL6448BC33-50E	TM032LDZ17	TM081JFH03
NL6448BC33-54	TM032LDZ20	TM081JYH01
NL6448BC33-59	TM032LYH01	TM084SBHG04
NL6448BC33-59D	TM032LYH02	TM084SDHG01
NL6448BC33-63	TM032LYH03	TM084SDHG01-00
NL6448BC33-63C	TM032LYH04	TM084SDHG01-01
NL6448BC33-63D	TM032LYH05	TM084SDHG02
NL6448BC33-64	TM032LYH06	TM084SDHG02-00
NL6448BC33-64C	TM032LYH21	TM084SDHG03
NL6448BC33-64D	TM032LYS01	TM084SDHG04
NL6448BC33-64E	TM032PDHV01	TM084SDHG50
NL6448BC33-64F	TM032PDHV02	TM090DDSG01
NL6448BC33-64R	TM032PDHV02-V2	TM090JDH01

Infringement Contentions

NL6448BC33-70	TM032PDHV02-V2.0	TM090RDH01
NL6448BC33-70C	TM032PDHV03	TM090RDH01-00
NL6448BC33-70D	TM032PDHV04	TM090RDSG01
NL6448BC33-70F	TM032PDHV06	TM090RDSG01-00
NL6448BC33-70G	TM032PDHV08	TM090RDSG06
NL6448BC33-70K	TM032PDZ04	TM090RFH01
NL6448BC33-71	TM032PDZ08	TM092XDHG01
NL6448BC33-71C	TM032PDZ13	TM097TBHG02
NL6448BC33-71D	TM032PDZ16B	TM097TDH01
NL6448BC33-71F	TM032PDZ17	TM097TDH01-V2
NL6448BC33-95D	TM032PHHV01	TM097TDH02
NL6448BC33-97D	TM032PYH02	TM097TDH02-40
NL6448BC63-01	TM032PYHV04	TM097TDH02-41
NL6448CC33-30	TM032PYHV1	TM097TDH03
NL6448CC33-30W	TM032PYHV2	TM097TDH04
NL6448CC33-55	TM033XDHG01	TM097TDH05
NL8048AC19-13	TM034JHH01	TM097TDHG01
NL8048AC19-13BD	TM034XFH01	TM097TDHG04
NL8048AC19-13-ES	TM035HBHT1	TM097TDHG04-02
NL8048AC19-13KD	TM035HBHT1-00	TM097TDHG06
NL8048AC19-13KD-C1	TM035HBHT1-V1.2	TM097TFH01
NL8048AC19-13ND-C1	TM035HBHT1-V2.0	TM097TFH02
NL8048AC19-14F	TM035HBHT4	TM097TFH03
NL8048AC19-14KH	TM035HBHT6	TM097TGH01
NL8048AC19-21	TM035HBHT6-V2	TM097TYH01
NL8048AC21-01F	TM035HBZT00	TM101DDHG01
NL8048BC19-02	TM035HDHT1	TM101DDHG01-00
NL8048BC19-02BD	TM035HDHT1-V1.1	TM101DDHG03
NL8048BC19-02C	TM035HYHT1	TM101DDHG04
NL8048BC19-02KD	TM035KBH02	TM101DDHG05
NL8048BC19-03	TM035KBH02-00-V1.3	TM101DDHG06
NL8048BC19-08	TM035KBH02-09	TM101DVHG01
NL8048BC19-08D	TM035KBH02-V1.3	TM101DVHG01-01
NL8048BC19-13KD	TM035KBH02-V1.4	TM101XDH01
NL8048BC24-01	TM035KBH03	TM104QCS11
NL8048BC24-06	TM035KBH04	TM104QDSG09
NL8048BC24-12	TM035KBH05	TM104SBH01
NL8048BC24-12BD	TM035KBH07	TM104SBH01-00
NL8048BC24-12D	TM035KBH11	TM104SBH01-V2.1
NL8048BC24-12KD	TM035KBH11-09	TM104SBH02
NL8060AC21-21D	TM035KBH11-V1.0	TM104SBH03

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NL8060AC21-21KD	TM035KBH12	TM104SBH03-V1.0
NL8060AC24-01	TM035KBH13	TM104SBH04
NL8060AC26-02	TM035KBH14	TM104SBH04-V1
NL8060AC26-05	TM035KBH15	TM104SBH04-V1.0
NL8060AC26-17	TM035KBZ04	TM104SBHG03
NL8060AC26-52D	TM035KBZ12	TM104SCH01
NL8060AC26-54D	TM035KBZ17	TM104SCH01-V2.2
NL8060AC31-12	TM035KDH01	TM104SCH01-V2.3
NL8060AC31-12G	TM035KDH02	TM104SCH02
NL8060BC16-01	TM035KDH03	TM104SCH02-V2.2
NL8060BC21-02	TM035KDH03-36	TM104SCH02-V2.3
NL8060BC21-02N	TM035KDH03-39	TM104SCH03
NL8060BC21-03	TM035KDH03-49	TM104SDH01
NL8060BC21-04	TM035KDH03-79	TM104SDH01-00
NL8060BC21-06	TM035KD-H03-79	TM104SDH01-V2.1
NL8060BC21-09	TM035KDH03-V1	TM104SDH02
NL8060BC21-10	TM035KDH03-V1.0	TM104SDH02-00
NL8060BC21-11	TM035KDH03-V1.3	TM104SDH02-V1.1
NL8060BC21-11C	TM035KDH03-V13	TM104SDH03
NL8060BC21-11D	TM035KDH04	TM104SDH03-V1.2
NL8060BC21-11F	TM035KDH04-07	TM104SDH04
NL8060BC21-11KG	TM035KDH04-09	TM104SDH04-V1
NL8060BC26-02	TM035KDH04-97	TM104SDH04-V1.0
NL8060BC26-04	TM035KDH05	TM104SDHG04
NL8060BC26-05	TM035KDH08	TM104SDHG30
NL8060BC26-08	TM035KDH09	TM104SDHG30-00
NL8060BC26-12	TM035KDH10	TM104SDHG30-01
NL8060BC26-18	TM035KDH16-06	TM104SDHG40
NL8060BC26-19Y	TM035KDH16-09	TM104TFH01
NL8060BC26-20	TM035KDHG04	TM121SCS01
NL8060BC26-20Y	TM035KDHG06	TM121SDS01
NL8060BC26-21	TM035KDHG10	TM121SDS01-05
NL8060BC26-23	TM035KDZ11	TM121SDS01-V1.1
NL8060BC26-23Y	TM035KDZ14	TM121SDSG03
NL8060BC26-24	TM035KFH01	TM121SDSG05
NL8060BC2628	TM035KFH03	TM121SDSG07
NL8060BC26-30C	TM035KVHG01	TM121TDS G02-00
NL8060BC26-30D	TM035KVHG01-09	TM121TDSG01
NL8060BC26-30G	TM035KVHG01-40	TM121TDSG02
NL8060BC26-35	TM035KVHG03	TM121TDSG02-00
NL8060BC26-35AD	TM035KVZ29	TM121TDSG04

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NL8060BC26-35BA	TM035KVZ29-V1	TM12232ACC6
NL8060BC26-35BA-C1	TM035KYH01	TM128128A4KFWG
NL8060BC26-35BD	TM035KYH02	TM128128A4KFWGWC22
NL8060BC26-35C	TM035LYH01	TM128128A4KFWGWC36-1
NL8060BC26-35D	TM035LYH02	TM128128A4KFWGWC63
NL8060BC26-35E	TM035NDH01	TM128128A4KFWGWC67-1
NL8060BC26-35F	TM035NDH01-V1.1	TM128128A4KFWGWC69-1
NL8060BC26-55ND	TM035NDH02	TM128128BBCWVBYA
NL8060BC26-56KD	TM035NDH04	TM128128F6CCWGWG1
NL8060BC29-01	TM035NDH04-V2	TM128160CKFWG
NL8060BC31-05	TM035NDH06	TM128160F4NFWGWC12
NL8060BC31-09	TM035NYH01	TM128160F4NFWGWC3
NL8060BC31-11B	TM035PDH03	TM128160LKFWG5-1
NL8060BC31-12	TM035PDH06	TM12864A5IHSUGNA
NL8060BC31-13A	TM035PDH14	TM12864G3CCWGWA-1
NL8060BC31-13B	TM035PDH52	TM12864G3CIWGNA1-1
NL8060BC31-13S	TM035PDH53	TM12864LCAWG
NL8060BC31-17-BIS	TM035PDH56	TM150TCS01
NL8060BC31-17-CIS	TM035PDHG03	TM150TCS02
NL8060BC31-17D	TM035PDHG03-00	TM150TDHP10-00
NL8060BC31-17E	TM035PDHV01	TM150TDS50
NL8060BC31-18A	TM035PDHV02	TM150TDSG52
NL8060BC31-27	TM035PDHV02-V12	TM150TDSG53
NL8060BC31-27D	TM035PDHV03	TM150TDSG59
NL8060BC31-28	TM035PDHV04	TM150TDSG70
NL8060BC31-28D	TM035PDHV08	TM150TDSG70-01
NL8060BC31-28E	TM035PDW01	TM150TDSG71
NL8060BC31-32	TM035PDW01-V1	TM150TDSG71-01
NL8060BC31-36	TM035PDW01-V1.0	TM150TDSG73
NL8060BC31-40	TM035PDZ00	TM150TDSG76
NL8060BC31-41	TM035PDZ15	TM150TDSG80
NL8060BC31-41C	TM035PDZ20	TM150TDSG81
NL8060BC31-41D	TM035PDZ35	TM150TDSG84
NL8060BC31-41E	TM035PDZG82	TM150TVSG01
NL8060BC31-42	TM035PDZV36	TM150XDHG01
NL8060BC31-42D	TM035PDZV51	TM161ABCWVBYA
NL8060BC31-42E	TM035PHHV01	TM161ABCWVBYA-V1.0
NL8060BC31-42G	TM035PHHV02	TM161FBCWVBYA
NL8060BC31-46	TM035PVHM01	TM161FBCWVBYA-V1.0
NL8060BC31-47	TM035PVZN01-10	TM162ABCWVBYA
NL8060BC31-47C	TM035PYHV04	TM162ABCWVBYA-V1.0

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NL8060BC31-47D	TM035PYHV1	TM162C7BCWGYA
NL8060BC31-50F	TM035PYS01	TM162C7BCWGYA-V1
NL8060BC31-51C	TM035PYW01	TM162C7BCWGYA-V1.0
NL8060BH18-01	TM035PYW02	TM162GBCWVBYA
NL8060BH18-02	TM035PYW04	TM162GBCWVBYA-V1.0
NLB070WV01C-01	TM035WBHG01	TM162IBCWVBYA
NLB070WV01L-01	TM035WBHG02	TM162IBCWVBYA-1.0
NLB070WV01L-01AA	TM035WBHG05	TM162IBCWVBYA-V1
NLB070WV01L-01BD	TM035WDH01	TM176220B5NFWGWC1
NLB070WV01L-01BD-C1	TM035WDH01-00	TM190MCS01
NLB070WV01L-01KC-C1	TM035WDH01-V1	TM190MCS02
NLB084SV01L-01	TM035WDHG03	TM190MCS02-V1
NLB104SV01L-01	TM035WDHG03-00	TM190MCS02-V1.2
NLB121SV01L-01	TM035WVHG01	TM190MDS01
NLB121XG01L-01	TM035WVHG02	TM190MDS01-00
NLB150XG01L-01	TM035WYH01	TM190MDS01-V1.2
NLB150XG01L-01BD	TM035XYH02	TM190MDS02
NLB150XG02L-01	TM036LYH01	TM190MFS01
NLB150XG02L-01BA	TM037PDH01	TM190MFS02
NLB150XG02L-01BD	TM037PDH02	TM202JBCWVBYA
NLB150XG02L-02	TM037PYH01	TM202JBCWVBYA-V1
TC050JDHN08-01	TM037PYH02	TM202JBCWVBYA-V1.0
TL049JDXP05-01	TM037PYH21	TM204ABCWVBYA
TL050VDMP01-00	TM037PYH22	TM204ABCWVBYA-V1.0
TL050VVXP07-00	TM037PYH23	TM236VCS01
TL050VVXP14-00	TM037PYH24	TM236VFS01-00
TL052BVXB13-00	TM037WBHT01	TM240128ABCWVBYD
TL052BVXB13-0045MA5697	TM037WDHT01	TM240128AGFWVBYD
TL052VDMP01-00	TM037WDHT01-00	TM240160B1CFWGWA
TL055VDMP07-00	TM038PHP01	TM240160XCFWGRA
TL055VDMP09	TM039PDH11	TM240320B8NFWGWC
TL055VDMP14	TM039PYH01	TM240320B9NFWGWC13
TL055VDMP14-00	TM040KFH01	TM240320B9NFWUGWC
TL055VDXP41-01	TM040WDHT1	TM240320C1NFWGWC
TL055VDXP55-01	TM040XYS01	TM240320FNFWG
TL055VDXP61-00	TM040XYS02	TM240320INFWG1
TL055VVMS09-00	TM040XYS31	TM240320KNFWUG1
TL055VVX67-00	TM040XYS32	TM240320LNFWUG
TL055VVXP31-00	TM040YDH01	TM240320QNFWUG8-3
TL055VVXP40-40	TM040YDH02	TM240400ENFWGWA
TL055VVXP46-00	TM040YDH02-01	TM24064BBCWVBYD

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TL055VVXS06-00	TM040YDH05	TM320160CCCWGWG
TL055VVXS13-00	TM040YDH10	TM320240BCCWVSWA
TL055VVXS27-00	TM040YDH11	TM320240ECCWVSWD
TL055VVXS42	TM040YDH13	TM320240EGFWVSWD
TL055VVXS49-00	TM040YDH14	TM320240JKFWT
TL059FDMP01-00	TM040YDH16	TM320240ONFWG
TL059FDMP01-01	TM040YDH51	TM320240ONFWGWC3
TL060FVMS14-00	TM040YDH53	TM320240UFFWVGWD-V0
TL060FVMS47-00	TM040YDHP42	TM402CBCWVBYA
TL060FVMS47-00__TDDI	TM040YDHPO5	TM402CBCWVBYA-V1
TL060FVXS15-00	TM040YDSP51	TM402CBCWVBYA-V1.0
TL060FVXS18-00	TM040YDZ01	TM48064BDA
TL062FVMC18-00	TM040YDZA40-00	TM5059CA024C-01
TL062FVMF014	TM040YSP02	TM6003CA195C-01
TL062FVMH02	TM040YVH01	TM8029CA195C-01
TL062FVMH02-00C	TM040YYH01	TM81ABCWVBYA
TL063FVMC05-00	TM040YYSA02	TM9616AGHWGNA
TL063FVMC05-00_TDDI	TM040YYSA21	TM9867DKFWUGWC9
TL063FVMC43-02	TM040YYSA22	TMK418X2V0.1
TL063FVXK03-00	TM043NBH01	TMS150XG1-10TB
TL063FVXK03-00_TDDI	TM043NBH01-V1.4	TMS150XG1-10TB Rev.E
TL064FVMH10-00	TM043NBH02	TMS150XG1-10TB?
TL064FVMH15-00	TM043NBH02-40	TMS150XG1-10TB-Rev.E
TL064FVMM01-00	TM043NBH02-V1.0	TMS150XG1-11TB
TL064FVXK01-00	TM043NBH02-V1.2	TMS150XG1-12TB
TL064JVXM01-00	TM043NBH03	TMS150XG1-14TB
TL064VVXP02-00	TM043NBH06	TMS150XG1-15TC
TL065BVXP01-00	TM043NBH07	TMS150XG1-16TC
TL065FDMC01	TM043NBHG04	TMS150XG1-23TB
TL065FVMM01-00	TM043NBHG04-00	TMS150XG1-23TD
TL065FVXF02	TM043NDH01	TMS156WX1-01TB
TL065FVXF21-00	TM043NDH02	TMS156WX1-02TC
TL065FVXF21-00_TDDI	TM043NDH02-40	TMS156WX1-03TA
TL065FVXS50-00	TM043NDH02-41	TMS156WX1-04TB
TL065FVXS50-00_TDDI	TM043NDH02-V2.0	TMS156WX1-07TB
TL066FVMH02-00	TM043NDH02-V2.1	TMS156WX1-08TA
TL066FVXF02-00	TM043NDH03	TMS156WX1-08TB
TM0101JDHG01	TM043NDH05	TMS156WX1-12TB
TM013XDHT01	TM043NDH06	TMS170SX1-05TB
TM014EDH01	TM043NDH08	TMS185WX1-01TB
TM014EDH05	TM043NDH09	TMS185WX1-02TB

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TM014EDH05-V2	TM043NDHG02	TMS185WX1-03TB
TM014EDH12	TM043NDHG02-40	TMS185WX1-04TC
TM014EDH21	TM043NDHG03	TMS185WX1-06TA
TM014EDH21-V2	TM043NDHG08	TMS185WX1-07TA
TM014EDH22	TM043NDHG11	TMS190WX1-04TP
TM014EDH23	TM043NDHG11-00	TMS190WX1-05TB
TM014EDH24	TM043NDHG12	TMS190WX1-08TC
TM014EDHG10	TM043NDHG12-00	TMS190WX1-17TA
TM014EDZ03	TM043NFH01	TMS190WX1-18TA
TM014EDZ08	TM043NFH02	TMS190WX1-19TB
TM014EDZ35	TM043NVHG01	TMS190WX1-20TB
TM014EDZ38	TM043NVHG01-00	TMS190WX1-22TC
TM014EYH01	TM043NVHG08	TMS190WX1-50TB
TM014EYH02	TM043NVHG08-00	TMS236FH1-01TB
TM014EYH21	TM043NVZG08	TMS236FH1-02TB
TM014EYH22	TM043NYH01	TMT024DNAFDU
TM014EYH23	TM043NYSG25	TMT024DNAFDU3
TM014EYH24	TM043NYSG26	TMT025DNAFDU
TM014FDH01	TM043XYS01	TMT032DNAFWR1
TM015EYH01	TM043XYS21	TMT035AMAGDD
TM016FFH02	TM043YDH02	TMT035CF01
TM016FYH02	TM043YDHA01	TMT035DMAFWD
TM016XDHP01	TM043YDZA02	TMT035DNAFWU
TM016XDZ00	TM043YYSA01	TMT035DNAFWU1
TM017FBH01.0	TM043YYSA02	TMT035DNAFWU-1
TM017FDH01	TM045XDH01	TMT035DNAFWU18-1
TM017FDH02	TM045XDZP02-00	TMT035DNAFWU18-3
TM017FDH02-20	TM045XYSA02	TMT035DNAFWU19
TM017FDH03	TM045XYSA03	TMT035DNAFWU21-2
TM017FDH03-V2.2	TM045YDH01	TMT035DNAFWU24-2
TM017FDH04	TM045YDH02	TMT035DNAFWU33
TM017FDH06	TM045YDH05	TMT035DNAFWU36-2
TM017FDH07	TM045YDH06	TMT035DNAFWU39-2
TM017FDH09	TM045YDH27	TMT035DNAFWU-V2.2
TM017FDH11	TM045YDH55	TMT040DNAFSD
TM017FDH12	TM045YDHP02	TMT040DNAFWU
TM017FDH13	TM045YDHP56	TMT043DNAFWU
TM017FDH16	TM045YDSP60	TMT043DNAFWU1
TM017FDH17	TM045YDW76	TMT043DNAFWU3
TM017FDH18	TM045YDZA19	TMT043DNAFWU5
TM017FDH19	TM045YDZA24	TMT050ANAGWU

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TM017FDH20	TM045YDZA26	TMT053AMAGDD
TM017FDH21	TM045YDZP00	TMT056ANAGDU
TM017FDH22	TM045YDZP00-00	TMT057DNAFWU
TM017FDH23	TM045YYH01-00	TMT057DNAFWU2
TM017FDH24	TM045YYH03	TMT062AMAGDD
TM017FDH25	TM045YYSA02	TMT070ANAGDU
TM017FDH27	TM045YYSA03	TMT070ANAGDU1
TM017FDH41	TM046JYHP01	TMT070ANAGDU3
TM017FDH43	TM046JYHP02	TMT070ANAGDU4
TM017FDH45	TM046XDHP04-00A07	TMT070ANAGDW
TM017FDH46	TM046XYS02	TMT070DABFSU2
TM017FDH48	TM046XYS21	TMT102DMAGSD
TM017FDH48-00	TM046XYSP02-00	TS020GAACD01-00
TM017FDH50	TM047JDHN01-00	TS022GAACB06-00
TM017FDHT01	TM047NBH01	TS022GAACD01-00
TM017FGH01	TM047NBH02	TS022GAACD05-00
TM017FYH01	TM047NBH03	TS022GAADY01
TM017FYH02	TM047NBH03-V2.1	TS022GAADY02
TM017FYH03	TM047NBH04	TS022HAACB01-00
TM017FYH04	TM047NBH06	TS022HAACD01-00
TM017FYH31	TM047NDH01	TS022HAACD14-00
TM017FYH32	TM047NDH02	TS022HAACD17-00
TM017FYH33	TM047NDH03	TS022HAADY11-00
TM017FYH34	TM047NDH03-V2.2	TS024HAACB01
TM017FYH41	TM047NDH04	TS024HAACB07-00
TM017FYH42	TM047NDZ01	TS024HAADB01-01
TM017FYH43	TM047NYH01	TS024HAADB02-00
TM017FYH44	TM047YDH01	TS024HAADD02
TM017FYS21	TM047YDH02	TS024HAADD04-01
TM018FBZ01	TM047YYH01	TS024HLDRD01
TM018FBZ26	TM047YYH02	TS028HAACB02-00
TM018FDH02-00	TM047YYH03	TS028HAACB02-01
TM018FDH03	TM047YYH04	TS028HAACB03-00
TM018FDZ02	TM049JDSP03	TS028HAACB04-00
TM018FDZ04	TM04SDHG01	TS028HAACB05-00
TM018FDZ08	TM050JDHP31	TS028HAACB05-01
TM018FDZ12	TM050JDHP44	TS028HAACB06-00
TM018FDZ16	TM050JDSP09	TS028HAACB07-00
TM018FDZ25	TM050JYHN11-00	TS028HAACD01-00
TM018FDZ51	TM050LDZ00	TS028HAARB05-00
TM018FDZ52	TM050NBH01	TS028HAARD02-00

Infringement Contentions

TM018FDZ83	TM050NDH01	TS028HAAVY02
TM018FYH01	TM050NYS20	TS032LAARD01-00
TM018FYH02	TM050NYS21	TS035KAAVB01-00
TM018GYH03	TM050QDH01	TS035KAAVB02-00
TM020GBH01	TM050QDH01-V2.1	TS035KAAVB03-00
TM020GDH01	TM050QDH02	TS035KAAVB04-00
TM020GDH02	TM050QDH03	TS035KAAVD01
TM020GDH03	TM050QDH04	TS035KAAVD02-00
TM020GDH03-V2	TM050QDH05	TS035KAAVD03-00
TM020GDH22	TM050QDH06	TS035KAAVD05-00
TM020GDH41	TM050QDH07	TS047NAARB01-00
TM020GDH42	TM050QDH11	TS047NAARB02-00
TM020GDH43	TM050QDH15	TS056KAAAD01-00
TM020GDH43-00	TM050QDH16	TS056KAAAD02-00
TM020GDH44	TM050RBH01	TS056KAAAD02-00-V1.1
TM020GDHL2	TM050RBH01-41	TS070OAAAD01
TM020GDHL3	TM050RBH02	TS070OAAAD01-00
TM020GDZ06	TM050RBH03	TS070OAAAD02
TM020GDZ16	TM050RBH03-41	TS070OAAAD02-00
TM020GDZ25	TM050RDH01	TS070OAAAD02-01
TM020GDZ26	TM050RDH03	TS070OAAAD03-00
TM020GYH01	TM050RDH03-00	TS070OAAAD04-00
TM020GYH03	TM050RDH03-40	TS070RAATB01-00
TM020GYH31	TM050RDH03-41	TS070RAATD01-00
TM020GYH32	TM050RDH03-V1.0	TS070SAATD01-00
TM020GYH33	TM050RDH05	TS104SAALC01-00
TM020GYH34	TM050RDH05-00	TS104SAATC01-00
TM020GYHL2	TM050RDH08	TS35KAAVB03
TM020GYS21	TM050RDH10	

In addition to the above-identified models, Plaintiffs identify all other substantially similar models of a-Si non-IPS Products that are made, used, sold, offered for sale, and/or imported into the United States by Defendant or Defendant's subsidiaries, affiliates, or down-stream customers/distributors since August 31, 2014, as explained in Plaintiffs' Detailed Technical Description of Representative Categories. *See* Appendix 7 ('299 & '665 patents).